1. Bikin folder baru

A black background with blue text

Description automatically generated

1. Bikin file crypto-config.yaml di folder artifacts/channel

A screen shot of a computer

Description automatically generated

1. Bikin file create-artifacts.sh di folder artifacts/channel
2. Jalanin perintah di bawah yang ada di file create-artifacts.sh

cryptogen generate --config=./crypto-config.yaml --output=./crypto-config/

1. Bikin file configtx.yaml di folder artifacts/channel
2. Kembali ke file create-artifacts.sh, jalan kan perintah ini (jangan lupa yang sebelumnya di comment):

SYS\_CHANNEL="sys-channel"

CHANNEL\_NAME="nsdm"

#Generate System Genesis Block

configtxgen -profile OrdererGenesis -configPath . -channelID $SYS\_CHANNEL -outputBlock ./genesis.block

#Generate channel configuration Block

configtxgen -profile BasicChannel -configPath . -outputCreateChannelTx ./nsdm.tx -channelID $CHANNEL\_NAME

echo "#######    Generating anchor peer update for GeologiMSP  ##########"

configtxgen -profile BasicChannel -configPath . -outputAnchorPeersUpdate ./GeologiMSPanchors.tx -channelID $CHANNEL\_NAME -asOrg GeologiMSP

echo "#######    Generating anchor peer update for OrgMinerba2MSP  ##########"

configtxgen -profile BasicChannel -configPath . -outputAnchorPeersUpdate ../channel/MinerbaMSPanchors.tx -channelID $CHANNEL\_NAME -asOrg MinerbaMSP

echo "#######    Generating anchor peer update for OrgBadanUsahaMSP  ##########"

configtxgen -profile BasicChannel -configPath . -outputAnchorPeersUpdate ../channel/BadanUsahaMSPanchors.tx -channelID $CHANNEL\_NAME -asOrg BadanUsahaMSP

echo "#######    Generating anchor peer update for OrgThirdPartyMSP  ##########"

configtxgen -profile BasicChannel -configPath . -outputAnchorPeersUpdate ../channel/ThirdPartyMSPanchors.tx -channelID $CHANNEL\_NAME -asOrg ThirdPartyMSP

nanti hasilnya seperti ini:

A screenshot of a computer

Description automatically generated

1. Bikin file docker-compose.yaml & base.yaml dibawah folder artifacts
2. Jalankan perintah ini dari folder artifacts:

docker-compose up -d

A screenshot of a computer

Description automatically generated

1. Bikin file createChannel.sh di folder utama
2. Jalankan perintah yang ada di dalam createChannel.sh

A screenshot of a computer

Description automatically generated

1. Bikin file deployChaincode.sh
2. Jalankan perintahnya satu per satu

A screenshot of a computer program

Description automatically generated

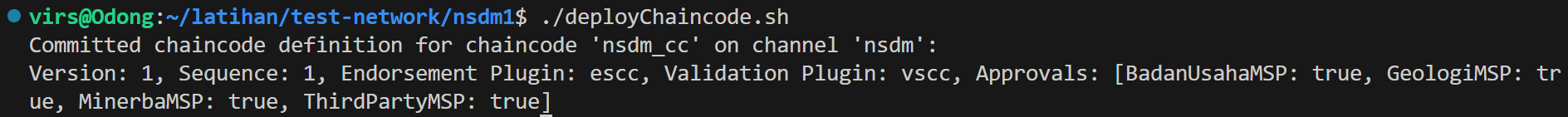
Sampe gini hasilnya

A computer screen with white and blue text

Description automatically generated

A screen shot of a computer code

Description automatically generated



A screenshot of a computer program

Description automatically generated

1. Dari docker desktop, masuk ke fabric-ca kemudian cari file etc/hyperledger/fabric-ca-server/fabric-ca-server-config.yaml kemudian di bagian affiliationnya ditambahkan affiliation sesuai yg kita butuhkan

affiliations:

Geologi:

- department1

- department2

Minerba:

- department1

BadanUsaha1:

- department1

BadanUsaha2:

- department1

ThirdParty:

- department1

A screenshot of a computer

Description automatically generated

1. Masuk ke folder api/config, update file ccp/file conection.json nya karena setiap generate key baru, credentialnya juga harus di update

A screenshot of a computer

Description automatically generated

\*jalanin generate-cpp.sh trus sesuaiin yg belum sesuai

1. Masuk ke folder api trus compile + run api nya

A screen shot of a computer

Description automatically generated

1. Buka Postman, untuk register user, masukan :

A screenshot of a computer

Description automatically generated

Klo berhasil nanti result nya spt itu

1. Invoke chaincode :

A screenshot of a computer

Description automatically generated

\*masukin token saat register tadi ke auth nya, trus di bagian body masukin:

{

    "fcn":"CreateAsset",

    "peers":["peer0.geologi.esdm.go.id","peer0.minerba.esdm.go.id","peer0.bu1.example.com","peer0.bu2.example.com","peer0.thirdparty.example.com"],

    "chaincodeName":"nsdm\_cc",

    "channelName":"nsdm",

    "args":["273","Tes 3 Nikel Kolonedale","Nikel","Ni","Logam Besi dan Paduan Besi","Kolonedale","Petasia","Morowali Utara","Sulawesi Tengah","Eksplorasi","iup","20000000","196000","0","0","0","0","0","0","0","0","0","0","keterangan","121.341","-1.861","rkab","Swasta/BUMN","cpi","2024","cid"]

}

A screenshot of a computer

Description automatically generated